

EMILIN-2 (H-227): sc-134799

BACKGROUND

EMILINs (elastin microfibril interface located proteins) are extracellular matrix glycoproteins that localize to sites with proximity to elastin and microfibrils. They consist of an N-terminal cysteine-rich EMI domain and a conserved C-terminal gC1q-like domain. EMILIN-1 is abundant in elastin-rich tissues such as blood vessels, skin, heart and lung. It influences placenta formation and initial organogenesis with a later role in interstitial connective tissue. EMILIN-2 is larger than EMILIN-1 and contains a unique proline-rich domain. It is likely involved in the process of elastogenesis. Multimerin-2 (also known as EMILIN-3 or EndoGlyx-1) is expressed during embryonic development. Multimerin-1 (also known as EMILIN-4) is expressed in platelets and the endothelium of blood vessels and may act as a carrier protein for platelet factor V. EMILIN-5 is encoded by the EMILIN3 gene and is sometimes referred to as EMILIN-3. It contains the N-terminal cysteine-rich EMI domain but lacks the C-terminal gC1q-like domain. EMILIN-5 is expressed in human mesenchymal stem cells and plays an important role in skeletal development.

REFERENCES

1. Doliana, R., et al. 1999. EMILIN, a component of the elastic fiber and a new member of the C1q/tumor necrosis factor superfamily of proteins. *J. Biol. Chem.* 274: 16773-16781.
2. Mongiat, M., et al. 2000. Self-assembly and supramolecular organization of EMILIN. *J. Biol. Chem.* 275: 25471-25480.
3. Doliana, R., et al. 2001. Isolation and characterization of EMILIN-2, a new component of the growing EMILINs family and a member of the EMI domain-containing superfamily. *J. Biol. Chem.* 276: 12003-12011.
4. Braghetta, P., et al. 2002. Expression of the EMILIN1 gene during mouse development. *Matrix Biol.* 21: 603-609.
5. Spessotto, P., et al. 2003. β 1 Integrin-dependent cell adhesion to EMILIN-1 is mediated by the gC1q domain. *J. Biol. Chem.* 278: 6160-6167.
6. Doi, M., et al. 2004. Molecular cloning and characterization of a novel gene, EMILIN5, and its possible involvement in skeletal development. *Biochem. Biophys. Res. Commun.* 313: 888-893.

CHROMOSOMAL LOCATION

Genetic locus: EMILIN2 (human) mapping to 18p11.32; Emilin2 (mouse) mapping to 17 E1.3.

SOURCE

EMILIN-2 (H-227) is a rabbit polyclonal antibody raised against amino acids 276-502 mapping within an internal region of EMILIN-2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

EMILIN-2 (H-227) is recommended for detection of EMILIN-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EMILIN-2 (H-227) is also recommended for detection of EMILIN-2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EMILIN-2 siRNA (h): sc-72374, EMILIN-2 siRNA (m): sc-72375, EMILIN-2 shRNA Plasmid (h): sc-72374-SH, EMILIN-2 shRNA Plasmid (m): sc-72375-SH, EMILIN-2 shRNA (h) Lentiviral Particles: sc-72374-V and EMILIN-2 shRNA (m) Lentiviral Particles: sc-72375-V.

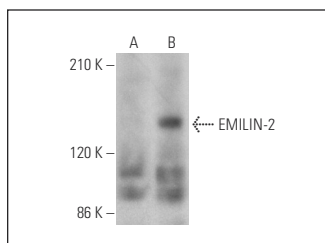
Molecular Weight of EMILIN-2: 112 kDa.

Positive Controls: EMILIN-2 transfected CHO whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



EMILIN-2 (H-227): sc-134799. Western blot analysis of EMILIN-2 expression in non-transfected CHO (A) and mouse EMILIN-2 transfected CHO (B) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **EMILIN-2 (3D9): sc-517180**, our highly recommended monoclonal alternative to EMILIN-2 (H-227).